

MINE DOOR SYSTEM WITH TRIGGER-ACTUATED LATCH MECHANISM**ABSTRACT**

A mine door system for closing a mine doorway comprises a door hinged adjacent the doorway for swinging relative to the stopping between a closed position and an open position swung outwardly away from the stopping. A keeper is mounted in fixed position relative to the doorway. The system further comprises a trigger-actuated latch mechanism including a detent engageable with the keeper for latching the door in its closed position and a trigger operably connected to the detent in a latched position. The mechanism is constructed and configured so that actuation of the trigger causes the detent to move from a latched position in which the detent engages the keeper for latching the door closed to an unlatched position in which the detent is disengaged from the keeper for allowing the door to be opened.